PREMIER®

MANUAL DE INSTRUCCIONES
LAVADORA A PRESIÓN DE GASOLINA
MDP-4440

ESTIMADO CLIENTE

Con el fin de que obtenga el mayor desempeño de su producto, por favor lea este manual de instrucciones cuidadosamente antes de comenzar a utilizarlo, y guárdelo para su futura referencia.
Si necesita soporte adicional, no dude en escribir a: ***info@premiermundo.com***

ÍNDICE

INSTRUCCIONES DE SEGURIDAD 2
RECOMENDACIONES 2
ESPECIFICACIONES 2
DESCRIPCIÓN 3
INSTRUCCIONES 3
LIMPIEZA Y MANTENIMIENTO 5
ALMACENAMIENTO 5
RESOLUCIÓN DE PROBLEMAS 5
RECOMENDACIONES FINALES 6

LÍNEAS DE SERVICIO AL CLIENTE PREMIER

Venezuela:	0800 – ELECTRIC (353-2874)
Colombia:	01-900-331-PEJC (7352)
Panamá:	300-5185
Sitio Web:	www.premiermundo.com
E-mail:	servicioalcliente@premiermundo.com

NOTA
Nos reservamos el derecho de modificar las especificaciones, características y/u operación de este producto sin previo aviso, con el fin de continuar las mejoras y desarrollo del mismo.

⚠ INSTRUCCIONES DE SEGURIDAD

- La unidad debe utilizarse en lugares amplios y ventilados. No la utilice en lugares encerrados como el garaje o el sótano.
- Evite aspirar el humo que sale de la unidad.
- No la utilice en lugares donde hay muchas personas.
- Utilice los detergentes recomendados por el fabricante. No utilice sustancias que contengan cloro o lejía.
- Al transportar la unidad recuerde mantenerla apagada.
- Tenga en cuenta que la unidad es de alta presión. Por lo tanto, no coloque sus manos frente al chorro de agua ni la utilice como pistola para jugar con otros.
- Evite utilizar la unidad si usted se encuentra cansado o con sueño o bajo los efectos del alcohol.
- Mantenga la unidad fuera del alcance de los niños.
- Utilice ropa adecuada de protección cuando trabaje con la unidad.

⚠ RECOMENDACIONES

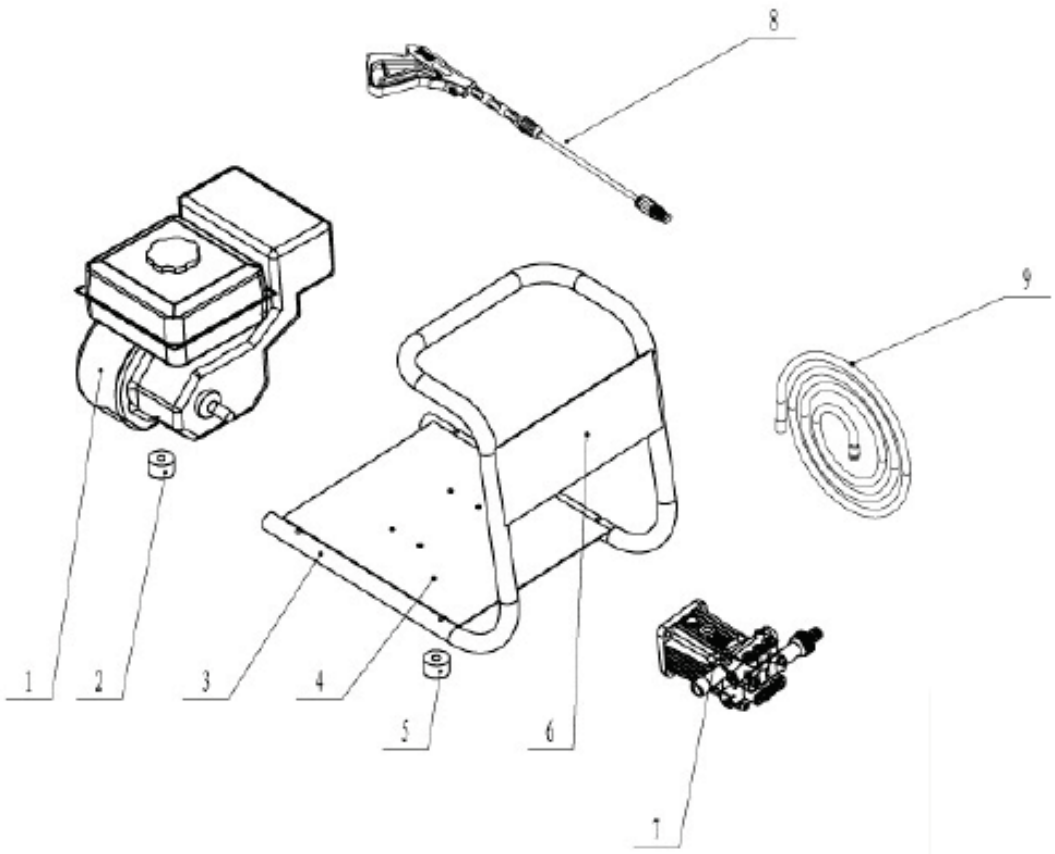
- El agua de alta presión puede dañar la pintura de algunas superficies como por ejemplo vidrios y motocicletas. También puede dañar algunos bordes. Por lo tanto se sugiere no lavar este tipo de objetos con la lavadora presión.
- No utilice la unidad por más de 2 minutos seguidos se observa que no está entrando agua.

ESPECIFICACIONES

Tipo de motor	De gasolina
Presión	9Mpa (1300 psi)
Presión Máxima	13Mpa (1900psi)
Flujo	7 L/min (1.8 GPM)
Peso	18 Kg
Potencia	2.6 HP
Velocidad	3.400 – 4.600 r/min
Medidas	470 x 370 x 500 mm

DESCRIPCIÓN

1. Motor
2. Almohadilla de impactos
3. Marco
4. Placa posterior
5. Almohadilla de impactos
6. Placa de etiqueta
7. Bomba principal
8. Pistola de presión
9. Manguera de presión



Motor: suministra la energía para mover el agua.
Bomba: presiona el agua.
Manguera: transporta el agua a presión hasta la pistola.
Pistola: conéctela a la lanza y controle la velocidad, dirección y presión del agua
Conector de lanza: hay un conector en el extremo el de la lanza. Puede cambiar de presión alta a presión baja.
Manguera de medicamento: coloque el medicamento y mézclelo con el agua alta presión.
Interruptor de prevención de aire: controla la velocidad del motor.
Manija del arranque: aprieta el eje del motor halando este cable.
Interruptor de gasolina: controla el interruptor de conexión de la gasolina y el vaporizador.
Interruptor del motor: controla el sistema de luces
Válvula de temperatura: (repuesto) cuando la temperatura de la bomba sea muy alta, la válvula se abrirá automáticamente y por medio del agua enfriará la bomba. Una vez que esté fría la válvula se cerrará.
Sistema absorbente: mezcle el medicamento y el detergente juntos de tal manera que puedan disolverse en el agua de alta presión de manera más fácil y aumenta el efecto de lavado.
Suministro de agua: la lavadora a presión toma el agua como dieléctrico. El suministro mínimo de agua debe ser 5.2gpm.

Importante
Recuerde no utilizar la pistola por más de 2 minutos seguidos.

INSTRUCCIONES

AJUSTE DE PRESIÓN

- La presión que ha sido ajustada de fábrica puede brindar un excelente desempeño. Usted también puede reducir la presión si así lo desea.
- Recuerde no aumentar demasiado la presión ya que chorro de agua es mucho más fuerte.
- Mantenga una distancia adecuada entre usted y el objeto. Entre más lejos esté menor es la presión.
- Utilice la boquilla blanca con ángulo de spray de 40°. Este tipo de boquilla reduce la velocidad del agua.

USO DE LA LANZA

La lavadora cuenta con 5 boquillas cada una de diferente color las cuales están nombradas de acuerdo con su ángulo de spray. 0º, 15º, 25º y 40º, y una más para baja presión. Las boquillas se insertan por la parte plana. Cada color le permite distinguir el tipo de boquilla.

CAMBIO DE BOQUILLA

1. Cambie la boquilla con el motor apagado.
2. Mueva el conector con su mano izquierda y luego inserte la boquilla rápidamente con su mano derecha.
3. Asegúrese que está firme antes de comenzar a usarla.
4. Recuerde que hay 5 tipos de boquillas según sus necesidades de presión. La boquilla negra es particularmente adecuada para utilizarla con medicamentos y detergente.

MEDICAMENTO Y DETERGENTE

- La lavadora debe ser utilizada con baja presión para aplicar esta mezcla.
- Debe utilizarse únicamente un detergente adecuado para este tipo de lavadora. No utilice lejía.
- Introduzca la manera de medicamento en el conector. Conecte el extremo del medicamento al contenedor.
- La proporción adecuada es 7 partes de agua por 1 parte medicamento o detergente.
- Coloque la boquilla de baja presión (negra) en el conector.
- Limpie el recipiente del medicamento después de utilizarlo. Usted puede rociar el agua a la manguera de medicamento con el fin de limpiarla completamente. Es importante que no queden residuos de medicamento ya que esto puede dañar la bomba.

RECOMENDACIONES DE OPERACIÓN

- Recuerde utilizar ropa de protección y no apunte la pistola hacia otras personas ya que puede ocasionar heridas.
- No agregue el combustible al contenedor de combustible cuando el motor esté activo o este aún caliente. No fume cerca del motor y menos cuando esté agregando el combustible.
- No llene el contenedor de combustible a más de la mitad para permitir un espacio de expansión.
- Limpie cualquier combustible que se derrame o salpique.
- No toque el mofle con la manguera cuando esté operando la unidad.
- No hale la entrada de la manguera para evitar daños al conector de la bomba.
- Es muy importante que la gasolina que utilice esté fresca con un octanaje mayor al 86% y sin plomo.

- Verifique el tanque de aceite de la bomba y asegúrese que tiene aceite suficiente para funcionar. El tipo de aceite es YB-N68 y la capacidad máxima es de 100ml. Tenga en cuenta que la lavadora

puede dañarse si no tiene aceite.
- Es importante que libere la presión con una llave después de 2 veces que falle en operar. Hale el gatillo para expulsar agua. Suelte la llave y detenga el agua. Ajuste la operación del agua cambiando la boquilla.

LIMPIEZA Y MANTENIMIENTO

- Al terminar de usar la unidad límpiela completamente con detergente. Usted puede rociar agua limpia a la manguera de medicamento para expulsar los residuos.
- Apague el motor. Cierre la llave del agua.
- Libere la presión en la manguera y en la lanza halando el gatillo.
- Guarde la unidad en condiciones normales de temperatura y limpieza.
- En caso de hacer algún mantenimiento al motor permita que se enfríe antes de comenzar.
- Si utiliza el motor en lugares con mucha suciedad límpielo con más frecuencia.

MEDICIÓN DE ACEITE

- Retire la tapa de la bomba y límpiela.
- Introduzca el medidor de aceite y retírelo para ver el nivel.
- Recuerde que la cantidad de aceite no debe exceder la mitad de la capacidad.

REEMPLAZO DE ACEITE

- Retire el tapón del aceite.
- Coloque la unidad en un lugar alto de tal forma que la salida del aceite pueda dar con un contenedor. Permita que salga todo el aceite a este contenedor.
- Cuando termine coloque de nuevo el tapón.
- Cubierta del aceite hasta la mitad del recipiente.

LANZA

- Baje completamente la presión del agua.
- Hale la llave para liberar la presión.
- Retire la boquilla de la lanza y límpiela.
- Enjuague la lanza completamente por 30 segundos.
- Coloque de nuevo la boquilla y deje correr el agua.

ALMACENAMIENTO

- Drene toda el agua de la manguera antes de almacenar la unidad.
- Coloque la boquilla hacia abajo.
- Evite almacenar la unidad en lugares con muchos objetos.
- Si no ha utilizado la unidad por más de 30 días puede estar muy fría. Tome las precauciones necesarias antes de utilizarla de nuevo.
- Usted puede utilizar un anticongelante para la unidad. Retire la bujía y agregue el anticongelante. Hale suavemente el cable de ignición para mover el anticongelante. Vuelva a colocar la bujía.

RESOLUCIÓN DE PROBLEMAS

Esta lista es para ayudarle a resolver problemas simples que pueden presentarse en el uso del producto. Por favor léala y verifique estos puntos antes de solicitar ayuda de personal de servicio

técnico autorizado.

PROBLEMA	CAUSAR Y SOLUCIÓN
El motor no arranca	Verifique que tenga combustible y aceite. El interruptor debe estar encendido. No hay suficiente presión de agua.
No hay presión o es muy baja	La boquilla puede estar atorada. La función de prevención de aire esta activa. La manguera es muy larga.
No sale el detergente	La lanza esta puesta en baja presión. El filtro del detergente está atorado. El detergente es demasiado denso. La manguera es muy larga.
Hay fugas de agua en la pistola o en la lanza	Las condiciones están muy suaves El anillo-O (empaque) está muy gastado
Hay fugas de agua en la bomba	Las conexiones no están firmes El anillo-O (empaque) está muy gastado La bomba tiene partes rotas
Hay fugas de aceite en la bomba	La tapa no está bien puesta. El anillo-O (empaque) está muy gastado Hay demasiada aceite. El aceite no es el adecuado para esta bomba
La presión sube y baja	Se detuvo la boquilla

RECOMENDACIONES FINALES

- Utilice gasolina fresca y sin plomo.
- Antes de almacenar la unidad el tanque debe ser preparado dejando correr el motor por 5 minutos.
- Utilice aceite adecuado para esta unidad tanto para el motor como para la bomba.
- No utilice la unidad con poco agua.
- La presión puede cambiarse de acuerdo con sus necesidades.
- Se debe halar la llave de la pistola al menos cada 2 minutos cuando esté operando el motor.
- Tenga precaución de no halar la manguera fuertemente.

PREMIER®

INSTRUCTION MANUAL
GASOLINE PRESSURE WASHER
MDP-4440

DEAR CUSTOMER

In order to achieve the best performance of your product, please read this instruction manual carefully before using, and keep it for future reference.
If you need extra support, please write to ***info@premiermundo.com***

PREMIER CUSTOMER SERVICE

Venezuela:	0800 – ELECTRIC (353-2874)
Colombia:	01-900-331-PEJC (7352)
Panama:	300-5185
Website	www.premiermundo.com
E-mail:	servicioalcliente@premiermundo.com

NOTE
This unit may be submitted to changes in specifications, characteristics and/or operation without prior notice to the user, in order to continue improving and developing its technology

WARNING SIGN

Pay attention to these warning signs above.

DANGER It may threaten personal safety or cause badly hurts for not obeying this instruction.

WARNING It may cause hurts or the damage of the machine for not obeying this instruction.

NOTICE It may cause slight hurts or the damage of the machine.

COMPLEMENT The necessary indication for customers' safety and effective use.

SAFETY GUIDE

WARNING PLEASE READ CAREFULLY BEFORE OPERATING.

ACCIDENT	
DANGEROUS be vigilant to the fire and explosion	
Problem	Solve
● When the petrol which run over from the machine meets the spark, steam or the hot parts of the engine(for example the muffler), it will get fire. ● The expansion will cause the fuel run over of the tank, it my cause the fire disaster and explosion. ● It may cause the fire when running the high pressure washer in the explosive surrounding. ● It will disturb the ventilation of the surrounding if the machine running near the tinder, in that case, the tinder will catch fire. ● The thermal of the muffler will damage the surface of the substance, and melt something which sensitive of the heat, (for example the coating, plastics, rubber and so on), it may also burn the plants. ● The fuel misstoring will cause the accident and fire disaster, and the spark will splash down on the hands of the children and some other people. ●If the high pressure washer sprays some chemical or insecticide with poisonous and	●Turn down the engine ,and make it cool before oiling the tank. Do not make the oil out of the tank. ●Put the high pressure washer away from the fuel, then run the engine. ● In case to keep the space for the expansion, the volume of the fuel should not be more than 1/2 of the tank. ● The high pressure washer should been run in the well ventilated surrounding, and with fire extinguisher ● Do not run the high pressure washer near the bush or the dry glass. ● In case not to be damaged by the thermal of the muffler, the surface of the substance (for example: house, motorcycle and plants) should away from the high pressure washer at least 1.2m. ● The fuel should been stored in the container which is approved by the safety and hygienic regulation, and make sure the container is far away from the running place. ● Strictly prohibit spraying any inflammable

caustic, it may cause badly injury and death.	liquid.

ACCIDENT	
DANGEROUS be vigilant to some venomous and dangerous gas	
Problem	solve
● It will cause the badly injury and death for people to aspirate the smoke which exhausted by the high pressure washer. ● Some detergents contain venomous which are badly for our skin, eyes or lung.	● The high pressure washer should been running in the well ventilated surrounding, please don't run the machine in the closed garage and basement. ● Do not run the machine in the crowd place. ● Use the detergents which manufacturer recommended. ● Do not use any substance with the chorine and bleach.

ACCIDENT	
DANGEROUS be vigilant to the pollution when transporting and storing	
Problem	Solve
● The leaked fuel caused fire and odor, and the leaked oil will pollute the carpet and the surface of other conveyances.	● If the machine equips the fuel switch, please make sure that the switch is off. If not, please swill the fuel out when transporting. In case to protect the conveyances from the leaked oil, we put the backing on the machine. Removing the high pressure washer from the car as long as them get to the destination.

ACCIDENT	
DANGEROUS be vigilant to the dangerous of the water spraying	
Problem	solve
● The water spraying of the high pressure washer is high speed and high	● Do not put your hands before the nozzle. ● Do not make the gun point at people and yourself.

pressure; it can impale the humans and animals and cause badly injury and death. The ease of the connector and the damage of the hose will cause this case. ● If the pressure is not been fully release before dismantling and repairing the machine, it may also cause the dangerous.	● Make sure the hose and connector are running well. Do not hold the hose and the connector tightly. ● Do not put the hose close to the muffler. ● Do not get the connector off when the system is under the high pressure. ● If you get hurt by the water spraying, please go to see the doctor as soon as possible. ● When the water in the hose is drained off and the pressure is released out, then turn off the engine and the water switch. ● You can only use the hose with higher pressure bearing than the high pressure washer assessed.

ACCIDENT	
DANGEROUS be vigilant to the dangerous of irregular operation	
Problem	solve
● Wrong operation will bring dangerous to people and yourself. ● It will cause badly hurt to the hands and arms with irregular operating of the engine. ● The gun and pole are the strong cleaning tools, and the appearance is similar to the toy. ● When move the gun and pole will produce strong power which makes the user falling. Misusing the gun and pole will cause badly hurt to the user and other people.	● Do not use any liquid with the chorine and bleach. ● Please use the complete set of the detergent. ● Running the machine away from the people and animal. ● Please keep sober when operating the machine. Do not operating the machine when you're drunk, tired and sleepy. ● Do not ignore the safety character of this product. Do not operate the product when the spare parts are lacking, broken or not qualified. ● Pay more attention to the pole when running the machine. ● If the engine is not working for you have pulled the start handle for twice, please press the gun and make the pump releasing the pressure. When you feel the bounce and resistance, please pull the start cord quickly in case not been hurt by the strong shocking.

	● Do not run the machine when the children are close. ● Do not operate the machine on the place which is too high or not firm. ● Enclasp the gun and pole so that the gun will work by the predetermined way.

ACCIDENT	
⚠DANGEROUS be vigilant to the dangerous of be shocked	
Problem	solve
● The short circuit caused when the water sprayed to the electrical power source and switch.	● The high pressure washer should be run away from the electrical power source and switch.

ACCIDENT	
⚠DANGEROUS be vigilant to the dangerous of the hot surface	
Problem	solve
● It will get badly burn for touching hot surface, for example the exhaust pipe of the engine.	● Please only touch the control surface; do not touch the exhaust parts. ● Make children away from the high pressure washer in any time for they can't realize the danger of this product.

ACCIDENT	
⚠DANGEROUS be vigilant to the dangerous of the high pressure water	
Problem	Solve
● The high speed water can make things burst and drive the atom moving.	● Please wear the protective glass and clothes for preventing the surprised water spraying. ● Do not make the pole and gun point at people.

	● Please close the gun and lock it with the assurance incase the accident occurred. ● Do not make the spanner fixed at open all the time.

NOTICE the water spraying from the high pressure washer may damage the paint of the board, glass and motorcycle, it may also damage the edge of the things, so we should ensure the things that to be washed will not be damaged by the high pressure. Please avoid using the concentrate water, except for the concrete and steel.

COMPLEMENT It will cause the damage of the machine for no water running. In that case, we will not afford the repair charge.

COMPLEMENT Please do not run the machine for more than two minutes when there is no cool water coming into the pump or there is no hot water released from the pump.

·Please read and comprehend all the instructions.

·Please do not run the high pressure washer before you understand this instruction.

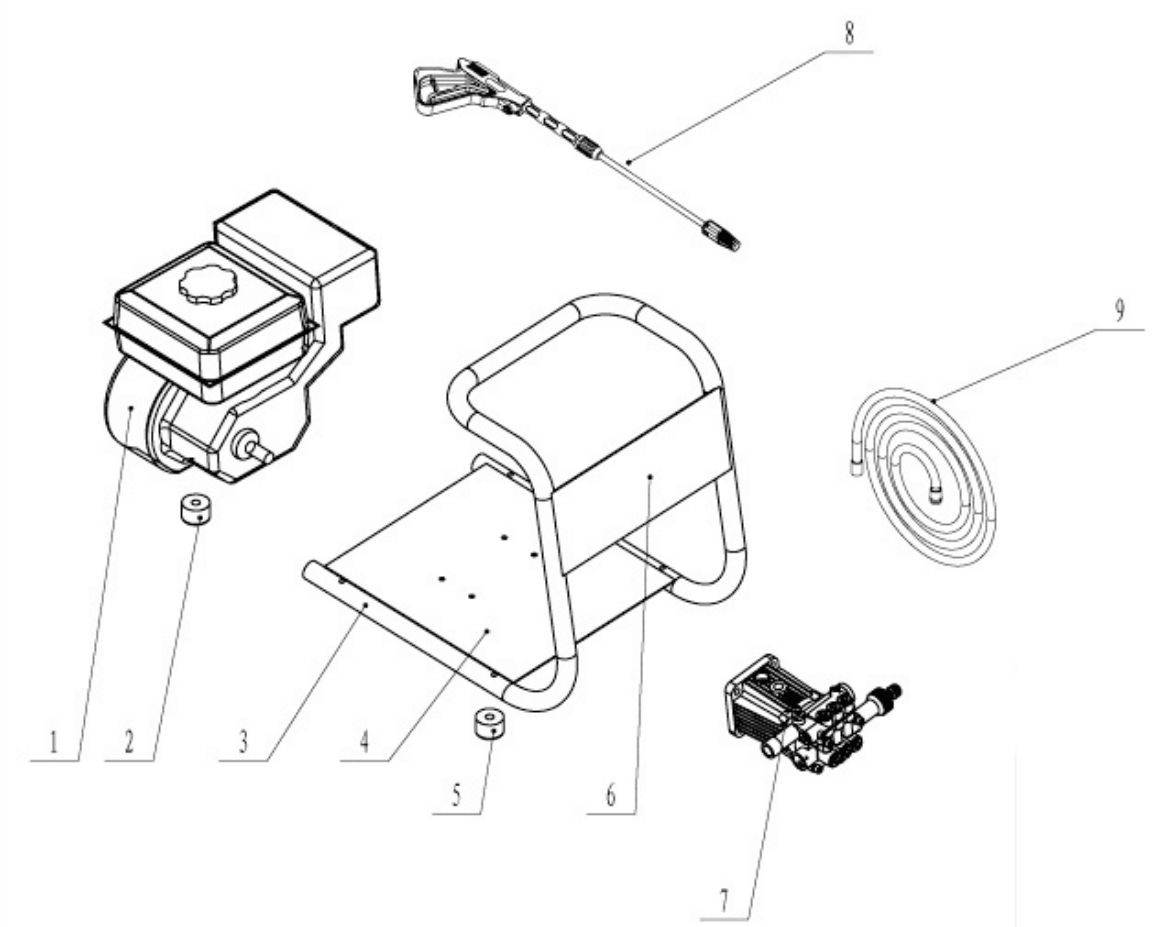
·Please don do run the engine before you understand the instruction of the engine.

PARAMETER

Motor type	Gas engine
Pressure(PSI)	9Mpa (1300psi)
Max. Pressure(PSI)	13Mpa□1900psi□
Flow(L/min)	7 (1.8 GPM)
Weight(kgs)	18
Gas engine	2.6 HP
Revolving speed	3400-3600r/min
Measurement(L*W*H)	470*370*500mm

ACCESSORIES INSTRUCTION

Before you run the high pressure washer, please read this instruction carefully.



1, Engine

2, Shock pad

3, Frame

4, Backplate

5, Shock pad

6, Lable plate

7, Main pump

8, Pressure gun

9, Pressure hose

The elementary component of the high pressure washer

Engine： Supply the power for washer running

Pump: pressing the water

Engine：running the pump

Hose：transporting the high pressure water to the gun and lance.

Gun：connect to the lance and control the speed、direction、and pressure of water.

The connector of the lance: there is a connector in the end of the lance. It can change from the high pressure to the low pressure. Please accord to the instruction.

Medicament hose：supply the medicament and make it mix with the high pressure water. Please accord to the instruction.

Please accord to the instruction.

The switch of the air preventing：control the speed of the engine.

The handle of the starter：screw the axis of the engine by pulling the start cord.

The switch of the fuel：control the connect switch of the fuel and vaporizer.

The switch of the engine: control the switch of the light system.

Temperature valve ：（spare parts）once the temperature in the pump is too high, the valve will open automatic, and then it will run over the water and make pump cool. Once the temperature is lower, the valve will close.

Bibulous system：mix the medicament and detergent together, so that it can dissolve in the high pressure water easier and raise the wash effect.

Water supply：all the high pressure washer take the water as dielectric. The minimum water supply should be reach 5.2gpm.

NOTICE: when the gun turn off, the water cycled in the high pressure pump. Because there is no cold water supply, the temperature of the water will raise, and may damage the component of the pump. In that case, we will not afford the repair charge.

Do not shut the gun for more than 2 minutes in any time.

KEY POINT OF RUNNING THE HIGH PRESSURE WASHER

◆ ADJUST THE PRESSURE

The pressure which is predetermined at factory can make the machine get the best water pressure and

cleanliness function, if you want to reduce the pressure, you can make it by these way:

NOTICE **do not try to increase the pressure of the higher pressure, the more danger will bring.**

- Be far away the objective gradually. The more distance, the smaller pressure it will get.
- Reduce the speed of the engine. The slower of the speed, the smaller of the pressure.
- Use the white nozzle with spray angle of 40°。 This kind of the nozzle can reduce the speed of the water.

NOTICE **do not be more than the assessed pressure when adjust it.**

◆ **USE THE LANCE**

- The washer have configured five kinds of nozzles, each has different colors, which are named by their spraying angle, 0°、15°、25° and 40°are the high pressure nozzles, the other one is the low pressure nozzle.
- All the nozzles are inserting in the handle flat, and the flat has different colors which are convenient for you to distinguish the different nozzles.

WARNING **do not point the gun at people or animal for it may cause danger. If the people was sprayed with any protection, it may also cause badly hurt.**

◆ **CHANGE THE NOZZLE**

NOTICE **please change the nozzle when the engine is off**

- Move the quick connector with your left hand, and then insert the nozzle quickly with your right hand.
- Loosen the quick connector, then turn the nozzle and make sure it has been safety fixed.

WARNING **dangerous of spraying, please make sure the nozzle is fixed before you pull the trigger.**

0° red nozzle: Can spay small high pressure water column which is very strong and can be used only on the high pressure bearable surface, for example the concrete and steels. Do not shoot on the board.

15° yellow nozzle: can spray the high pressure water with angle of 15° which is strong and used only for the high pressure bearable surface.

25° green nozzle : can spray the high pressure water with angle of 25° which is strong and used only for the high pressure bearable surface.

40° white nozzle: can spray the water with angle of 40° which is used for huge area and suit for normal cleaning.

Black nozzle for medicament and detergent : low pressure nozzle, suit for spraying the medicament and detergent.

◆ **USE THE MEDICAMENT AND DETERGENT**

WARNING **the pump must work under the low pressure when use the medicament and detergent.**

NOTICE **it can only use the detergent which is suit for the high pressure washer, please do not use the bleach.**

- Insert the medicament hose in the straw connector.
- Connect the end of the medicament and the strainer of the container.

NOTICE **medicament(detergent)□water=1□7, for another saying, every 7gallons' water equipped 1gallon medicament (detergent).**

- Insert the low pressure nozzle(black) into the quick connector.
- Clean the medicament after using. You can pour the clean water into the medicament hose and then shoot the water out. The remains medicament will damage the pump. For this damage, we will not afford the repair charge.

RUNNING INSTRUCTION

Please read the instruction carefully.

DANGEROUS **Do not shooting directly to the unprotect skin, eyes and animals when the pump is placing the high pressure for it may cause badly hurts. Do pulling the trigger when running the gasoline washer.**

The high speed and high pressure water can pierce the skin and cause badly hurts.

The easing and wearing will damage the hose and bring dangerous.

Please go to see doctor as soon as possible when being shooting by the high pressure water.

WARNING Do not add the fuel into the fuel container while running the engine for it is hot. No smoking while adding the fuel.

Do not full fill the fuel container, no more than 1/2 of the container for the expansion space.

Wipe off the fuels that overflow the engine before running the engine.

Do not touch the muffler with the hose when running the high pressure washer. If not, we will not afford the repair charge.

NOTICE **Do not pull the inlet hose(but move the high pressure Washer), or it may damage the inlet connector of the pump.**

No hot water， please use the cool water.

Do not close the water while the machine is running, or it may cause badly damage.

Do not shut the gun for more than 2 minutes in any time. When the trigger is off, the pump is in the situation of regaining the water. If keeping this situation for more than 2 minutes, it may cause damage to the component of the pump.

RUNING

Before running, please get the corrector way of running the engine from the instruction.

- Fill the machine with petrol which is fresh, with Octane more than 86% and with no lead in it. Wipe off the fuels that overflow the engine before running the engine.
- Check the condition of oil in high pressure pump before using.

NOTICE **There is little motor oil in the engine before selling.**

- Check the oil tank of the pump, make sure it has been filled with the motor oil of fixed brand. See the table above:

Type of the high pressure washer	Type of the oil	The capacity of the oil
MDP4440	YB-N68	100ml

WARNING **If the high pressure washer is damaged of no oil running, we will not afford the repair charge.**

- Check that if the intake hose is fixed. Notice: the water should be 5 gallon/min, 20psi/min at least, it means 19L/min, and the pressure is 1.5Kg/cm^2.
- Connect the hose and the out-let of the pump.
- If the chemistry is need, please refer the instruction of using the medicament and detergent.
- Turn on the water valve. Notice: it will cause badly damage to the pump of no water running.
- Running the engine.（see the instruction before use）。

NOTICE **Please release the pressure with spanner after two times' failure running.**

- Pull the trigger to spray water. Notice: please put the spanner on the smooth place and with two hands holding incase not to be kicked.
- Release the spanner and stop the water.
- Adjust the working water by changing the quick nozzle.

SAFEGUARD AND MAINTENANCE

FINISH

- Clean the machine after using the detergent. You can pour the clean water into the medicament hose and then shoot the water out. The remains medicament will damage the pump. For this damage, we will not afford the repair charge.
- Turn down the engine.(See the using instruction). Do not turn down the water before the engine closing.
- Turn down the water.
- Releasing the pressure in the hose and lance by pull the trigger.
- According the instructions to storage the machine correctly.

WARNING **It should been maintained under the common temperature and common pressure, or it may cause badly injury and death.**

- Before the safeguard and maintains, the socket should be off, in that way, the engine will cool and the pressure of the water will lower. Do not smoke while repairing.
- In order to improve the life of the machine and keep good operating condition, you can follow these maintain plans above.
- If the machine is used in some special environment, for example, the high temperature, full of dust, the frequently detecting is necessary.

THE MAILTENANCE OF THE ENGINE

The manufacturer of the engine has provided a comprehensive plane for the maintenance, please according the instruction.

CHECK THE OIL IN THE PUMP

- take down the gill of the pump and wipe it.
- insert the gill into the pump, then inspect the oil.
- the capacity of the oil can't be more than 1/2.

REPLACE THE OIL

- release the oil stopper.
- put the machine in the higher place so that the exit of the oil can face the container which is used for depositing the waste oil.
- get down the stopper, and releasing the waste oil.
- after the waste oil is released completely, then put the stopper back.
- pour the oil into the machine and check the capacity(normally 1/2).
- circle the stopper and make it fixed.

THE MAINTENANCE OF THE LANCE

If the nozzle is plugged up by the sand or something else, the pressure will rise for too high and be unstable, please clean the nozzle as above methods.

- Turn down the high pressure washer and water.
- Pull the spanner incase to release the pressure.
- Dismantle the nozzle of the lance.
- Pick the nozzle off, stab the nozzle with the needle, and clean it with water.
- Flush the lance from the end to the head for 30 seconds.
- Reloading the nozzle.
- Reconnecting the lance and gun, and turn on the water.
- Running the machine and make pressure of lance to the high pressure, then test the nozzle.

STORING

ENGINE

Please store the engine according to the instruction.

PUMP

- Drain off the water of the hose, roll up the hose, and then put it on the handle support of the high pressure washer.

- Make the nozzle facing down, and pull the spanner in case to drain off the water of the lance and gun.
- Please avoid crowding and oppressing when storing.
- When the machine is keeping storing for more than30days, or it may encounter the frozen weather, please take some protective and precaution measures.

NOTICE **For using the Non-toxic antifreeze only, any antifreeze with poisonous will damage the pump.**

- Break the ligature of the spark plug.
- Connector the intake of the pump with 36 inches' hose.
- Pour the antifreeze into the hose slowly.
- Pull the rope of the engine slowly till all of the antifreeze are in the pump.
- Take the intake hose of the pump.
- Reconnect the spark plug.

FAILURE ELIMINATING

Problem	Reason	Solve
The engine can not been run.	● Lack of fuel. ● Lack of oil. ● The pull of the handle bounced, and the pressure rose after the first running. ● The switch of the air prevention is in the wrong place. ● The switch of the engine is off. ● The switch of the air prevention is in the place of preventing, and the engine is hot. Or the engine is under hot surrounding. ● The lance did not place at high pressure. ● The water supply is not enough. ● The connector of the hose is leaking.	● Pour enough fuel. ● Pour enough oil. ● Pull the spanner of the gun to release the pressure. ● Put the air prevention into the right place. ● Fix the spark stopper. ● Place the switch at ON. ● Screw the air preventing, and make it at NO CHOKE. ● According to the instructions. ● The water supply should be 19L/min at least. ● Screw it, tie the tape if need. ● According to the repairing

No pressure or low pressure (for first using)	● The nozzle is clogged. ● The air prevention is placed on the preventing. ● The hose is too long.	instruction. ● Take the filter off and clean it. ● Place the air-prevention on the unpretending. ● Use the hose within 30 meters.

Problem	Reason	Solve
Can not spray out the detergent	● The lance is placed on the low pressure. ● The filter of the detergent is clogged. ● The filter of the detergent did not soak in the chemical. ● The density of the detergent is too thick. ● The hose is too long. ● The hose of the detergent is clogged.	● According to the instruction. ● Clean the filter. ● Make the filter of the detergent soaking in the hose. ● Dilute the detergent and make it dissolve into the water fully. ● Use the hose within 30 meters. ● Clean the parts or change the parts from the dealers.
Low pressure or be powerless (after using for a long time.)	● The seal of the stopper is badly damaged. ● The in/out valve was badly worn or stopped.	● Change it from the dealer.
Water leaking at the gun or lance.	● The O ring was badly worn. ● The connector of the hose was eased.	● Check and change it. ● Screw it.
Water leaking in the pump.	● The connector was eased. ● The connector of the stopper was badly worn. ● The O ring was badly worn. ● The shell of the pump or other parts broken.	● Screw it. ● Change it from the dealer.
Oil leaking in the pump.	● The oil heal was badly worn. ● The oil screw was eased. ● The oil releasing screw and the O ring was badly worn. ● The O ring of the oil cover was badly worn.	● Change it from the dealer. ● Screw it. ● Take it off and check it. ● Take it off and check it. ● Releasing the superfluous oil. ● Release this kind of oil, and

	● The oil in the pump is too much. ● The oil is not suit for this pump.	change the correct one.
The pressure goes up and down.	● The nozzle was stopped.	● According to the repairing instruction.

NOTICE

Fuel	● Use the fresh、high quality and no-lead gas. ● Before storing, the fuel tank should be enlisted some stable preparation, and make the engine running for 5 minutes.
Oil	● The pump oil using should according to the instruction. ● The engine oil using should according to the instruction.
Water	● Don't operate the machine without sufficient water.
Adjustment pressure	● The pressure preset by the factory is the best cleaning pressure. ● Reducing the pressure should according to the instruction.
High-pressure pump	● The spray gun spanner should be pulled every two minutes while the engine is working. ● Store in low temperature or with long time should according to the instruction. ● The water in pump should be prevented from icing
Backwater	● It may cause damage if the backwater state lasts two minutes, and it's out of our guarantee scope.
（Accessories） Temperature-sensing valve	● The temperature-sensing valve in high-pressure pump may drain off water automatically if the temperature is too high. It may close to ensure normal operation after drainage.

NO.	NAME	QUANTITY(pcs)

Hose	● The hose should not contact with the surface of the muffler during or after the operation. ● The hose should not be pulled during the operation.
Engine	● Don't adjust and repair the engine without according to the instruction or consultation. ● Add stabilizing agent into fuel container and keep the engine operating for five minutes. ● Turn on the water switch before operation.
Detergent nozzle	● Use the complete set of the detergent. ● Keep the nozzle unblocked and fasten the nozzle during operation. ● Pour the water through the drug inlet to clear the residual drug and detergent.
Storage and antifreeze	● Add stabilizing agent into fuel container and keep the engine operating for five minutes. ● The water in high-pressure pump, high pressure gun, spray rod and hose should be prevented from icing. ● Store in low temperature or with long time should according to the instruction

PACKING LIST

1	The whole machine and frame module	1
2	Hose	1
3	High pressure gun and lance	1